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COMPLETE LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of

claims in the application:

Listing of Claims:

1. (original) A process for manufacturing a coloured polyethylene terephthalate

container or container preform comprising providing a moulded polyethylene

terephthalate container or container preform, providing a colouration zone

containing as a solution or dispersion in a liquid medium one or more colourants

having a chemical affinity for polyethylene terephthalate, and in the colouration

zone contacting the container or container preform with the one or more colourants

in the liquid medium for a period of time and under conditions effective to cause at

least a portion of the one or more colourants to migrate from the liquid medium and

bind to the polyethylene terephthalate of the container or container preform.

2.. (original) A process according to claim 1 which comprises providing a

polyethylene terephthalate moulding composition and subjecting said polyethylene

terephthalate moulding composition to a moulding step thereby to form the

container or container preform.

3. (previously presented) A process according to claim 1 wherein the one or more

colourants comprises a disperse dye.

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4. (original) A process for manufacturing a polyethylene terephthalate container

or container preform having additive-imparted functionality comprising providing a

moulded polyethylene terephthalate article, providing an additive impartation zone

containing as a solution or dispersion in a liquid medium one or more additives

having a chemical affinity for polyethylene terephthalate, and in the additive

impartation zone contacting the container or container preform with the one or

more additives in the liquid medium for a period of time and under conditions

effective to cause at least a portion of the one or more additives to migrate from the

liquid medium and bind to the container or container preform.

5. (original) A process according to claim 4 wherein the one or more additives

is selected from the group comprising UV filters, oxygen absorbers, antimicrobial

agents, antioxidants, light stabilizers, optical brighteners, processing stabilizers,

flame retardants and mixtures of two or more thereof.

(previously presented) A process according to claim 1 wherein the effective 6.

conditions comprise a temperature of at least about 40 $^{\circ}$ C.

7.

(original) A process according to claim 6 wherein the effective conditions

comprise a temperature of at least about 60 ° C.

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8. (previously presented) A process according to claim 1 wherein the container

or container preform is a bottle or bottle preform.

9. (original) A method of making a blow moulded bottle from a polyethylene

terephthalate moulding composition which comprises:

i. providing a polyethylene terephthalate moulding composition;

ii. heating the polyethylene terephthalate moulding composition;

iii. extruding the hot polyethylene terephthalate moulding composition so as

to form a bottle preform;

iv. contacting the bottle preform with a colourant having a chemical affinity for

polyethylene terephthalate for a period of time and under conditions effective

to cause binding of the colourant to the polyethylene terephthalate; and

blow moulding the bottle preform at a blow moulding temperature so as to v.

form a coloured bottle.

(original) A method of making a blow moulded bottle from a polyethylene 10.

terephthalate moulding composition which comprises:

providing polyethylene terephthalate moulding composition; a. a

heating polyethylene terephthalate moulding composition; b. the

extruding the hot polyethylene terephthalate moulding composition so as c.

to form a bottle preform;

d. blow moulding the bottle perform at a blow moulding temperature so as to

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form a bottle;

e. contacting the bottle with a colourant having chemical affinity for

polyethylene terephthalate for a period of time and under conditions

effective to cause binding of the colourant with the polyethylene

terephthalate.

11. (original) A method of making a blow moulded bottle from a polyethylene

terephthalate moulding composition which comprises:

I. providing a polyethylene terephthalate moulding composition;

II. heating the polyethylene terephthalate moulding composition;

III. extruding the hot polyethylene terephthalate moulding composition so as to

form a bottle preform;

IV. contacting the bottle preform with an additive having a chemical affinity for

polyethylene terephthalate for a period of time and under conditions effective

to cause binding of the additive colourant to the polyethylene terephthalate;

and

V. blow moulding the bottle preform at a blow moulding temperature so as to

form a bottle with a desirable functionality attributable to the bound

additive.

12. (original) A method of making a blow moulded bottle from a polyethylene

terephthalate moulding composition which comprises:

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A. providing a polyethylene terephthalate moulding composition;

B. heating the polyethylene terephthalate moulding composition;

C. extruding the hot polyethylene terephthalate moulding composition so as to

form a bottle perform;

D. blow moulding the bottle preform at a blow moulding temperature so as to

form a bottle;

E. contacting the bottle with an additive having chemical affinity for

polyethylene terephthalate for a period of time and under conditions effective

to cause binding of the additive with the polyethylene terephthalate.

13. (previously presented) A process according to claim 1 wherein the colourant

or additive is targetted to a specific region of the container or container preform by

regioselective contacting of the container or container preform with the colourant or

additive.

14. (previously presented) A process according to claim 1 wherein the amount of

colourant or additive bound to the container or container preform can be controlled

by controlling the duration of contact of the container or container preform with the

colourant or additive.

15. (previously presented) A process according to claim 1 wherein the amount of

colourant or additive bound to the container or container preform can be controlled

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by controlling the concentration of colourant or additive in the solution/dispersion.

16. (previously presented) A process according to claim 1 wherein the container

or container preform requires no chemical pre-treatment prior to contacting the

colourant or additive in order to provided effective binding therebetween.

17. (previously presented) A process according to claim 1 wherein a first contact

between the container or container preform and a colourant or additive is followed

by a drying step and then a further contact between the container or container

preform and different colourant or additive.

18. (previously presented) An article produced by a process according to any one

of claim 1.

19. (currently amended) A moulded polyethylene terephthalate article according

to claim 18 having an inside surface and an outside surface and a colourant or

additive having a chemical affinity to polyethylene terephthalate bound

predominantly to one, but not the other, of said surfaces.

20. (currently amended) A container or container preform according to claim 19

18 wherein the colourant or additive is bound below the surface of the container or

container preform as a result of migration from a surface point of contact into the

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material of the polyethylene terephthalate container or container preform.

21. (previously presented) A process according to claim 4 wherein the colourant or

additive is targetted to a specific region of the container or container preform by

regioselective contacting of the container or container preform with the colourant or

additive.

22. (previously presented) A process according to claim 9 wherein the colourant

or additive is targetted to a specific region of the container or container preform by

regioselective contacting of the container or container preform with the colourant or

additive.

23. (previously presented) A process according to claim 10 wherein the colourant

or additive is targetted to a specific region of the container or container preform by

regioselective contacting of the container or container preform with the colourant or

additive.

24. (previously presented) A process according to claim 11 wherein the colourant

or additive is targetted to a specific region of the container or container preform by

regioselective contacting of the container or container preform with the colourant or

additive.

25. (previously presented) A process according to claim 12 wherein the colourant

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or additive is targetted to a specific region of the container or container preform by

regioselective contacting of the container or container preform with the colourant or

additive.

26. (previously presented) A process according to claim 4 wherein the amount of

colourant or additive bound to the container or container preform can be controlled by

controlling the duration of contact of the container or container preform with the

colourant or additive.

27. (previously presented) A process according to claim 9 wherein the amount of

colourant or additive bound to the container or container preform can be controlled

by controlling the duration of contact of the container or container preform with the

colourant or additive.

28. (previously presented) A process according to claim 10 wherein the amount of

colourant or additive bound to the container or container preform can be controlled

by controlling the duration of contact of the container or container preform with the

colourant or additive.

29. (previously presented) A process according to claim 11 wherein the amount of

colourant or additive bound to the container or container preform can be controlled

by controlling the duration of contact of the container or container preform with the

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colourant or additive.

30. (previously presented) A process according to claim 12 wherein the amount of

colourant or additive bound to the container or container preform can be controlled

by controlling the duration of contact of the container or container preform with the

colourant or additive.

31. (previously presented) A process according to claim 4 wherein the amount of

colourant or additive bound to the container or container preform can be controlled by

controlling the concentration of colourant or additive in the solution/dispersion.

32. (previously presented) A process according to claim 9 wherein the amount of

colourant or additive bound to the container or container preform can be controlled

by controlling the concentration of colourant or additive in the solution/dispersion.

33. (previously presented) A process according to claim 10 wherein the amount of

colourant or additive bound to the container or container preform can be controlled

by controlling the concentration of colourant or additive in the solution/dispersion.

34. (previously presented) A process according to claim 11 wherein the amount of

colourant or additive bound to the container or container preform can be controlled

by controlling the concentration of colourant or additive in the solution/dispersion.

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35. (previously presented) A process according to claim 12 wherein the amount of

colourant or additive bound to the container or container preform can be controlled

by controlling the concentration of colourant or additive in the solution/dispersion.

36. (previously presented) A process according to claim 4 wherein the container or

container preform requires no chemical pre-treatment prior to contacting the

colourant or additive in order to provided effective binding therebetween.

37. (previously presented) A process according to claim 9 wherein the container

or container preform requires no chemical pre-treatment prior to contacting the

colourant or additive in order to provided effective binding therebetween.

38. (previously presented) A process according to claim 10 wherein the container

or container preform requires no chemical pre-treatment prior to contacting the

colourant or additive in order to provided effective binding therebetween.

39. (previously presented) A process according to claim 11 wherein the container

or container preform requires no chemical pre-treatment prior to contacting the

colourant or additive in order to provided effective binding therebetween.

40. (previously presented) A process according to claim 12 wherein the container

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or container preform requires no chemical pre-treatment prior to contacting the

colourant or additive in order to provided effective binding therebetween.

41. (previously presented) A process according to claim 4 wherein a first contact

between the container or container preform and a colourant or additive is followed by

a drying step and then a further contact between the container or container preform

and different colourant or additive.

42. (previously presented) A process according to claim 9 wherein a first contact

between the container or container preform and a colourant or additive is followed

by a drying step and then a further contact between the container or container

preform and different colourant or additive.

43. (previously presented) A process according to claim 10 wherein a first contact

between the container or container preform and a colourant or additive is followed

by a drying step and then a further contact between the container or container

preform and different colourant or additive.

44. (previously presented) A process according to claim 11 wherein a first contact

between the container or container preform and a colourant or additive is followed

by a drying step and then a further contact between the container or container

preform and different colourant or additive.

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45. (previously presented) A process according to claim 12 wherein a first contact

between the container or container preform and a colourant or additive is followed

by a drying step and then a further contact between the container or container

preform and different colourant or additive.

46. (previously presented) An article produced by a process according to claim 4.

47. (previously presented) A moulded polyethylene terephthalate article

according to claim 46 having an inside surface and an outside surface and a

colourant or additive having a chemical affinity to polyethylene terephthalate

bound predominantly to one, but not the other, of said surfaces.

48. (previously presented) An article produced by a process according to claim 9.

49. (previously presented) A moulded polyethylene terephthalate article

according to claim 48 having an inside surface and an outside surface and a

colourant or additive having a chemical affinity to polyethylene terephthalate

bound predominantly to one, but not the other, of said surfaces.

50. (previously presented) An article produced by a process according to claim 10.

51. (previously presented) A moulded polyethylene terephthalate article

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according to claim 50 having an inside surface and an outside surface and a

colourant or additive having a chemical affinity to polyethylene terephthalate

bound predominantly to one, but not the other, of said surfaces.

52. (previously presented) An article produced by a process according to claim 11.

53. (previously presented) A moulded polyethylene terephthalate article

according to claim 52 having an inside surface and an outside surface and a

colourant or additive having a chemical affinity to polyethylene terephthalate

bound predominantly to one, but not the other, of said surfaces.

54. (previously presented) An article produced by a process according to claim 12.

55. (previously presented) A moulded polyethylene terephthalate article

according to claim 54 having an inside surface and an outside surface and a

colourant or additive having a chemical affinity to polyethylene terephthalate

bound predominantly to one, but not the other, of said surfaces.

56. (new) An article according to claim 19 further comprising a disperse dye

bound to the article.

57. (new) An article according to claim 56, wherein said disperse dye is selected

from the group consisting of anthraquinone, indanthrone, monoazo, diazo, mithine,

quinophthalone, perinone, naphthalidimide, thioindigo dyes and combinations thereof.